

What is claimed is:

1. A home network system, comprising:
 - a first network;
 - 5 a second network separated from the first network;
 - a home appliance connectable to at least one of the first and second networks; and
 - a network manager connectable to at least one of the first and second networks, for controlling and monitoring the home appliance.
- 10 2. The system of claim 1, wherein the home appliance and the network manager each respectively comprise a first interface module based on a predetermined control protocol connectable to the first network, for transmitting/receiving a message to/from an inside control means.
- 15 3. The system of claim 2, wherein the home appliance and the network manager each respectively comprise a second interface module based on the control protocol connected to the first interface module and connectable to the second network.
- 20 4. The system of claim 3, wherein the home appliance and the network manager are connected to each other through the first network by the first interface module, or through the second network by the first and second interface modules.
- 25 5. The system of claim 2 or 3, wherein the first and second interface modules each respectively comprise an application layer using the message, a

network layer, a data link layer and a physical layer under the control protocol, and the data link layers each respectively comprise a universal asynchronous receiver and transmitter for connecting the first interface module to the second interface module.

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6. The system of claim 1, wherein the home appliance comprises:

a first interface module for transmitting/receiving a message to/from an inside control means; and

a second interface module based on a predetermined control protocol
10 connected to the first interface module and connectable to the second network.

7. The system of claim 6, wherein the first interface module comprises an application layer using the message, a network layer and a universal asynchronous receiver and transmitter under the control protocol, and the second
15 interface module comprises an application layer, a network layer, a data link layer, a physical layer and a universal asynchronous receiver and transmitter connected to the universal asynchronous receiver and transmitter of the first interface module under the control protocol.

20 8. The system of one of claims 1 to 4, wherein the first network uses a dedicated medium.

9. The system of claim 8, wherein the first network is comprised of one of RS232C, RS485 and USB,

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10. The system of one of claims 1 to 4 or 6, wherein the second network

uses a shared medium.

11. The system of claim 10, wherein the second network is comprised of one of RF, PLC and IrDA.

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12. An interface apparatus of a home network system, comprising:

a first interface module based on a predetermined control protocol connectable to a first network connected to the home network system, for transmitting/receiving a message to/from a control means of a home appliance
10 composing the home network system; and

a second interface module based on the control protocol connected to the first interface module, disconnected from the first network, and connectable to a second network connected to the home network system.

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13. The apparatus of claim 12, which is connected to the home network system through the first interface module or the first and second interface modules according to a communication method of the home network system.

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14. The apparatus of claim 13, wherein the first and second interface modules each respectively comprise an application layer using the message, a network layer, a data link layer and a physical layer under the control protocol, and the data link layers each respectively comprise a universal asynchronous receiver and transmitter for connecting the first interface module to the second interface module.

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15. The apparatus of one of claims 12 to 14, wherein the first network uses

a dedicated medium.

16. The apparatus of claim 15, wherein the first network is comprised of one of RS232C, RS485 and USB.

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17. The apparatus of one of claims 12 to 14, wherein the second network uses a shared medium.

18. The apparatus of claim 17, wherein the second network is comprised of
10 one of RF, PLC and IrDA.

19. An interface apparatus of a home network system, comprising:
a first interface module for transmitting/receiving a message to/from a control means of a home appliance composing the home network system; and
15 a second interface module based on a control protocol connected to the first interface module and connectable to a network connected to the home network system.

20. The apparatus of claim 19, wherein the first interface module comprises
20 an application layer using the message, a network layer and a universal asynchronous receiver and transmitter under the control protocol, and the second interface module comprises an application layer, a network layer, a data link layer, a physical layer and a universal asynchronous receiver and transmitter connected to the universal asynchronous receiver and transmitter of the first interface module
25 under the control protocol.

21. The apparatus of claim 19 or 20, wherein the network uses a shared medium.

22. The apparatus of claim 21, wherein the network is comprised of one of
5 RF, PLC and IrDA.